Service Manual

10:1 Auto Iris Servo Control Zoom Lens/14:1 Auto Iris Servo Control Zoom Lens AW-LZ10MD6/AW-LZ14MD55/AW-LZ14ST55



SPECIFICATIONS

AW-LZ10MD6

Focal Length: 6 - 60 mm, 10 Times, Maximum Relative

 Zoom :
 Servo

 Focus :
 Servo

 Focusing Range :
 $1.2 \text{ m} - \infty$

 Field of View :
 Wide
 Tele

 Horizontal :
 $43^{\circ}36' - 4^{\circ}35'$

 Vertical :
 $33^{\circ}24' - 3^{\circ}26'$

 Diagonal :
 $53^{\circ}08' - 5^{\circ}43'$

Flangeback: $17.526 \text{ mm} \pm 0.03 \text{ mm}$

Mount: C Mount

Filter Size : $\phi 55 \text{ mm P} = 0.75 \text{ mm}$

Dimensions: 68 (H) x 75 (W) x 112 (D) mm [2-21/32"(H) x 2-31/32"(W) x 4-13/32"(D)]

 $\begin{tabular}{lll} \mbox{Weight:} & 0.6 \ kg \ (1.32 \ lbs) \\ \mbox{Input Voltage:} & +12 \ V \ DC \\ \mbox{Current Consumption:} & 250 \ mA \ Max \\ \end{tabular}$

Iris Operating Time :Approx. 3 s (Full Travel)Zoom Operating Time :Approx. 4 s (Full Travel)Camera Connector :HR10A-10P-12P, HIROSEControl Connector :HR10A-10P-12S, HIROSE

Panasonic

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.

It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.

Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.



TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL



I his symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.



This symbol alerts the user that important literature concerning the operation and maintenance of this has been included. Therefore, it should be read carefully in order to avoid any problems.

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are indicated by the "\(\Delta\)" mark on the schematic diagram and the replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent X-radiation, shock, fire, or other hazards. Do not modify the original design without permission of manufacture.

AW-LZ14MD55

Focal Length: 5.5 - 77 mm, 14 times, Maximum Relative

Aperture : F1.4 (5.5 - 68 mm) - F1.6 (77 mm)

Image Size: $\phi 6 \text{ mm} (4.8 \text{ x } 3.6 \text{ mm})$

Iris: F1.4 - F16, CLOSE Servo or Manual

Zoom: Servo or Manual Focus: Servo or Manual

 Focusing Range :
 1 m - ∞

 Field of View :
 Wide Tele

 Horizontal :
 47°09′ - 3°34′

 Vertical :
 36°15′ - 2°41′

 Diagonal :
 57°13′ - 4°28′

 Macro Range :
 0.01 m

Flangeback: 17.526 mm (±0.2 mm Adjustable)

Mount: C Mount

Filter Size : ϕ 62 mm P = 0.75 mm

Dimensions: 108 (W) x 100 (H) x 199 (D) mm [4-1/4" (W) x 3-15/16" (H) x 7-27/32" (D)]

 Weight :
 0.9 kg (1.99 lbs)

 Input Voltage :
 +12 V DC

 Current Consumption :
 400 mA Max.

Iris Operating Time :Approx. 1.5 s (Full Travel)Zoom Operating Time :Approx. 3 s (Full Travel)Focus Operating Time :Approx. 3 s (Full Travel)Camera Connector :HR10A-10P-12P, HIROSEControl Connector :HR10A-10P-12S, HIROSE

AW-LZ14ST55

Focal Length : 5.5 - 77 mm, 14 times, Maximum Relative **Aperture :** F1.4 (5.5 - 68 mm) - F1.6 (77 mm)

 Focus:
 Manual

 Focusing Range:
 1 m - ∞

 Field of View:
 Wide
 Tele

 Horizontal:
 47°09' - 3°34'

 Vertical:
 36°15' - 2°41'

 Diagonal:
 57°13' - 4°28'

 Macro Range:
 0.01 m

Flangeback: 17.526 mm (±0.2 mm Adjustable)

Mount: C Mount

Filter Size : ϕ 62 mm P = 0.75 mm

Dimensions: 100 (H) x 149 (W) x 199 (D) mm [3-15/16" (H) x 5-27/32" (W) x 7-27/32" (D)]

Weight: 0.9 kg (1.99 lbs) Input Voltage: +12 V DC Current Consumption: 200 mA Max

Iris Operating Time :Approx. 1.5 s (Full Travel)Zoom Operating Time :Approx. 3 - 15 s (Full Travel)Camera Connector :HR10A-10P-12P, HIROSEZoom Connector :R03 - R8F3, TAJIMI

Weight and dimensions shown are approximate. Specifications are subject to change without notice.

NOTE: Refer to the operating instructions of AW-E300E series for details.

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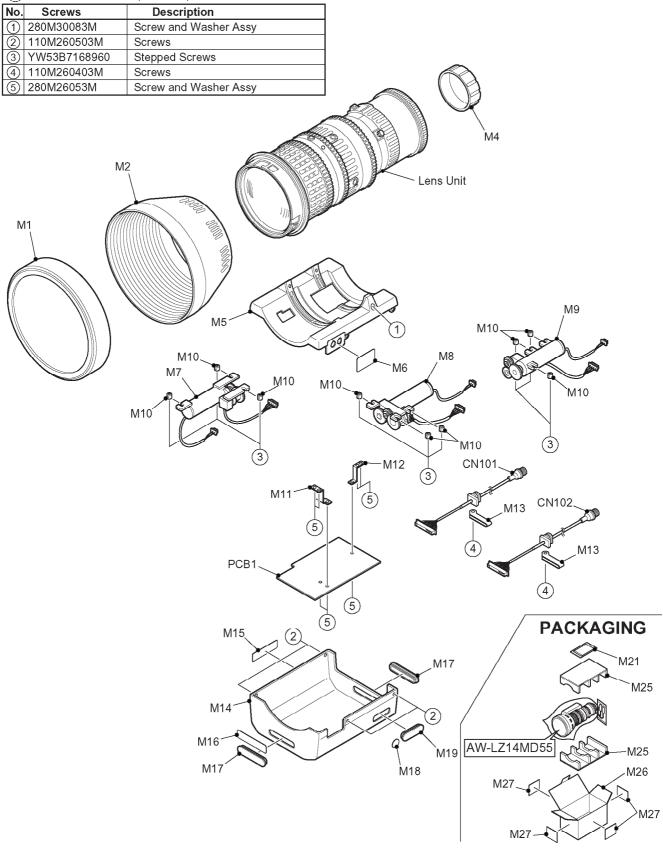
EXPLODED VIEW OF AW-LZ10MD6

Numbers show screws, washers, nuts and etc.

		The state and otto	1
No.		Description	
1	110M200353G	Screws	
2	280M20062M	Screw and Washer Assy	
3	280M200702M	Screws	
4	110M200353	Screws	
(5)	110M200503M	Screws	
6	161M02003M	Washers	
7	280M26088G	Screw and Washer Assy	
8	110M201200	Screws	
9	161M02003H	Washers	1 8 9
	M	M7 2 M	3 6 6 M14 M10 M9 4
-			✓ PACKAGING
W			
		M3	M4 M21
1			
	M1	M2	AW-LZ10MD6
			M26 M27
			M27 Serial No.
			Serial No. Label M27

EXPLODED VIEW OF AW-LZ14MD55

Numbers show screws, washers, nuts and etc.



EXPLODED VIEW OF AW-LZ14ST55

Numbers show screws, washers, nuts and etc. No. Screws Description 1 280M26063M Screw and Washer Assy M8 M6 110M261400M Screws 160M02605K Plain Washers (12)(12) M12 110M260503M Screws YW53B7168960 Screws M10 53K443490 Tapping Screws 110M260403M Screw 53B6673620 Screws M13 142M200802M Tapping Screw 280M30083M Screw and Washer Assy 12 M11 110M200253M Screws M10 (12) 110M260603M Screws M18 M17 M27 CN103 E101 M18 M24 M28 M29 CN102 CN104 .M26 PCB1 M23 M14 M16-M33 M34 (10)M20 CN101 M21 (1)Lens Unit `M5 **PACKAGING** M2 .M4 M41 `M45 M1 AW-LZ14ST55 M45 M46

REPLACEMENT PARTS LIST

Important Notice

- 1. Components identified by " \triangle " mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
- 2. RTL: Retention Time Limited (No longer available after discontinuing product).

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	
AW-LZ10MD6				AW-LZ	14MD55	
	MISCELLANEOUS		MISCELLANEOUS			
M1 M2 M3 M4 M5 M7 M8 M9 M10 M11 M12 M13 M14 M25 M25	YW7J1A155A 205A6711200	Lens Cap Cover Panel Cap Cap Motor Assy Motor Assy Limit Switch Assy Limit Switch Assy Plate Rear Cover Cap Bracket Cap Cap Cap Rear Cover Cap	PCB1 CN101 CN102 M1 M2 M4 M5 M6 M7 M8 M9 M10 M11 M12 M13 M14 M15 M16 M17 M18	338A8318010 113A8309930 112A8325510 300M100N 27B7981610 57K798970 41B7985540 57B8309970 101A7985310 101A7985240 101A7985240 101A7985290 YW42B7168950 46B7985560 46B7985560 46B7985560 111B6362640 11B7985410 58B8496390 58B7985520 57B7985570 58B4963810 57B4907320	Printed Circuit Board Assy Connector Assy Connector Assy Lens Cap Hood Rear Cap Mounting Cast Adhesive Sheet Iris Motor Assy Focus Motor Assy Zoom Motor Assy Bushing Rubber Bracket Cable Retainer Main Cover Name Plate Label Rubber Cap Label Rubber Cap	
M26 M27	203B5623930 YWV8FA0137A4	Packaging Box Packaging Label	M21 A M25 M26 M27		S/PACKAGING PARTS Operating Instructions Packaging Assy Packaging Box Packaging Label	

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
	AW-	LZ14ST55		ACCESSORY PAR	RTS/PACKAGING PARTS
MISCELLANEOUS			M41 🗘		Operating Instructions
PCB1 CN101 CN102 CN103 CN104 E101 M1 M2 M4 M5 M6 M7 M8 M9 M10 M11 M12 M13 M14 M15 M16 M17 M18 M19 M20 M21 M22 M23 M24 M25 M26 M27 M28 M29 M30	338A8317120 YF112K320460 112B6644770 113B4459440 112K794250 300M100N 27B7981610 YF47B1607400 57K798970 150B7438220 56B6674120 YW11B6362720 YW57B3922140 YW57B6377180 YW16A6362670 YF57B2160890 58B8496450 34A7981790 85B7979300 50B7981830 34A7981800 YW42B7168950 41B7981820 YF57B1990290 115R7200030 16B6673320 31B7981810 115R7210030 29B6673330 50B7957170 81B3965290 41B4133060 109B6362640 115R7130010		M41 AM45 M46 M47		
M31 M32 M33 M34	115R7220050 111B6362640 115B7957190 311A6362690	Heat Shrinkable Tube Cable Retainer Insulation Sheet Seesaw Control			